

LASER ILLUMINATOR FOR INDICATING
A SAW KERF LOCATION ON A POWER SAW

ABSTRACT OF THE DISCLOSURE

5 A laser light is focused through a first lens to a spot, defocused to a spot with a
known diametral dimension, and then passed through a second rotatable lens
having a first surface comprising a plurality of corrugations in the form of a
sinusoidal curved and a second planar surface to produce a line of light of
controlled width. The line of light is disposed to illuminate the kerf in a
workpiece on a power saw. The line of light may be rotated and translated
10 laterally to align it with the saw blade and, prior to cutting the workpiece, to
illuminate the location of the kerf on the workpiece as well as the dimension of
the width of the kerf.